

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>800213WO</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/ FI 03/ 00602</b>	International filing date (day/month/year) <b>12/08/2003</b>	(Earliest) Priority Date (day/month/year) <b>15/08/2002</b>
Applicant  <b>DETECTION TECHNOLOGY OY</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.  
☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

**4. With regard to the title,**

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. 2E

- ☒ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.
- ☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PC 03/00602

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L31/115 G01T1/24

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L G01T H04N A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 002 134 A (LINGREN CLINTON L) 14 December 1999 (1999-12-14) column 17, line 12 - line 16 ---	1-47
X	US 2002/017612 A1 (YU GANG ET AL) 14 February 2002 (2002-02-14) claims 6-9 ---	1-47
X	US 4 826 777 A (ONDRIS MIROSLAV) 2 May 1989 (1989-05-02) column 4, line 25 - line 32 column 7, line 16 - line 25 ---	1-47
X	US 6 369 853 B1 (MERRILL RICHARD B ET AL) 9 April 2002 (2002-04-09) column 6, line 33 - line 40 column 8, line 45 - line 55 figures 6,8 ---	1-47
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## ° Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

13 November 2003

Date of mailing of the international search report

25.11.03

Name and mailing address of the ISA

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STURE ELNÄS/MN

## INTERNATIONAL SEARCH REPORT

International Application No

PC 03/00602

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 352 884 A (GRANFORS PAUL R ET AL) 4 October 1994 (1994-10-04) column 1, line 16 - line 18 column 5, line 18 - line 20 -----	1-47

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/FI 03/00602

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 48-51  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 48-51

Lack of essential features in the claims (Rule 6.3 PCT)

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PC7 N 03/00602

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6002134	A	14-12-1999	US 5677539 A	14-10-1997
			US 6333504 B1	25-12-2001
			US 6046454 A	04-04-2000
			US 6037595 A	14-03-2000
			US 2002079456 A1	27-06-2002
			AU 7255596 A	30-04-1997
			CA 2234684 A1	17-04-1997
			CN 1203669 A	30-12-1998
			EP 0937266 A1	25-08-1999
			JP 10512372 T	24-11-1998
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			KR 264312 B1	16-08-2000
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			CA 2319536 A1	05-08-1999
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			EP 1055260 A1	29-11-2000
			JP 2002502129 T	22-01-2002
			WO 9939395 A1	05-08-1999
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US 4826777	A	02-05-1989	US 4785191 A	15-11-1988
			CA 1314627 C	16-03-1993
			CN 88102359 A ,B	14-12-1988
			EP 0287228 A2	19-10-1988
			JP 1029068 A	31-01-1989
			KR 9611266 B1	21-08-1996
			US 4910412 A	20-03-1990
			US 5026980 A	25-06-1991
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US 6369853	B1	09-04-2002	EP 1031235 A1	30-08-2000
			TW 417390 B	01-01-2001
			WO 9926408 A1	27-05-1999
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			DE 69419098 T2	03-02-2000
			EP 0646305 A1	05-04-1995
			JP 7508390 T	14-09-1995
			WO 9424810 A1	27-10-1994
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